

What is claimed is:

1. A method for establishing an end-to-end virtual circuit, the method comprising:
  - establishing a permanent virtual circuit between customer premises equipment and a digital subscriber line access multiplexer;
  - embedding information for a permanent virtual connection between a switch and a remote node in a packet transmitted over a static connection in a network; and
  - establishing a permanent virtual circuit between the switch and the remote node based on the embedded information.
2. The method of claim 1, wherein embedding information comprises embedding information in the destination address.
3. The method of claim 1, wherein embedding information comprises embedding port, virtual path identifier (VPI) and virtual channel identifier (VPI) for the permanent virtual circuit between the switch and the remote node in the destination address of the packet transmitted over the static connection.
4. The method of claim 1, wherein embedding information comprises embedding slot, port, virtual path identifier (VPI) and virtual channel identifier (VPI) for the permanent virtual circuit between the switch and the remote node in the destination address of the packet transmitted over the static connection.
5. A digital subscriber line access multiplexer, comprising:
  - at least one channel card coupled to at least one customer premises equipment over a communication line;
  - at least one line card, adapted to be coupled to a data network, the line card adapted to provide communication between the at least one customer premises equipment and a remote node coupled to the data network; and

wherein information on a permanent virtual connection between the remote node and a switch of the data network is embedded in a packet transmitted over a static connection in the data network between the at least one line card and the switch.

6. The digital subscriber line access multiplexer of claim 5, wherein the at least one channel card comprises a channel card that supports one of asymmetric digital subscriber line (ADSL), symmetric digital subscriber line (SDSL, G.SHDSL), high bit rate digital subscriber line (HDSL), very high bit rate digital subscriber line (VHDSL), and rate adaptive digital subscriber line (RDSL) service.

7. The digital subscriber line access multiplexer of claim 5, wherein the information comprises information embedded in a destination address of the packet.

8. The method of claim 1, wherein the information comprises port, virtual path identifier (VPI) and virtual channel identifier (VCI) for the permanent virtual circuit between the switch and the remote node embedded in the destination address of the packet transmitted over the static connection.

9. The method of claim 1, wherein the information comprises slot, port, virtual path identifier (VPI) and virtual channel identifier (VCI) for the permanent virtual circuit between the switch and the remote node embedded in the destination address of the packet transmitted over the static connection.

10. A method for establishing an end-to-end virtual circuit, the method comprising:

establishing a permanent virtual circuit between a digital subscriber line modem and a digital subscriber line access multiplexer;

embedding at least slot, port, VPI and VCI information for a permanent virtual connection between a switch and a remote node in a packet;

transmitting the packet over a static connection in a data network between the digital subscriber line access multiplexer and the switch; and

establishing a permanent virtual circuit between the switch and the remote node based on the at least slot, port, VPI and VCI information to complete the end-to-end connection.

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